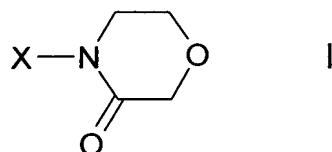


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Process for the preparation of compounds of the formula I



in which

X denotes

R¹ denotes NO₂, CN, COOR³, CON(R³)₂, COR³, SO₂R⁴, SO₂N(R³)₂, CF₃, F or Cl,

R² denotes H, Hal, A, OR³, N(R³)₂, NO₂, CN, COOR³, CON(R³)₂, NR³COA, NR³CON(R³)₂, NR³COOR³, NR³SO₂A, -[C(R⁵)₂]_n-Ar, -[C(R⁵)₂]_n-Het, -[C(R⁵)₂]_n-cycloalkyl, COR³, SO₂N(R³)₂ or SO₂R⁴,

R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁴ denotes A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁵ denotes H or A',

Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂ or S(O)_nA,

Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂, S(O)_nA and/or carbonyl oxygen (=O),

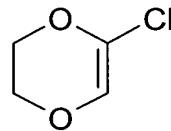
A' denotes unbranched or branched alkyl having 1-6 C atoms,
 A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,
 Hal denotes F, Cl, Br or I,
 n denotes 0, 1 or 2,
 m denotes 0, 1, 2, 3 or 4,
 and salts thereof, characterised in that
 a) a compound of the formula II



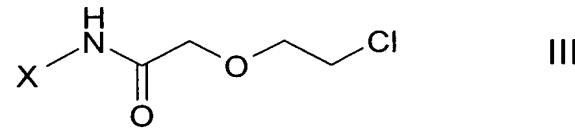
in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



to give a compound of the formula III



in which

X has the meaning indicated above,

b) then a compound of the formula III is cyclised to give a compound of the formula I,

and

- c) the latter is optionally converted into its salt by converting a base or acid of the formula I into one of its salts.
2. (Original) Process according to Claim 1 for the preparation of compounds of the formula I in which
 R^1 denotes NO_2 , CN , COOR^3 , COR^3 or Cl ,
 R^2 denotes H, Hal or A,
and salts thereof.
3. (Original) Process according to Claim 1 for the preparation of compounds of the formula I in which
 R^1 denotes NO_2 , CN , COOR^3 , $\text{CON}(R^3)_2$, COR^3 , SO_2R^4 ,
 $\text{SO}_2\text{N}(R^3)_2$, CF_3 , F or Cl,
 R^2 denotes H, Hal or A,
 R^3 denotes H, A, $-\text{[C}(R^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C}(R^5)_2\text{]}_n\text{-Het}$,
and salts thereof.
4. (Currently Amended) Process according to Claim 1, ~~2 or 3~~ for the preparation of compounds of the formula I in which
 Ar denotes phenyl,
and salts thereof.
5. (Currently Amended) Process according to claim 1 one or more of Claims 1-4 for the preparation of compounds of the formula I in which
 R^4 denotes A,
and salts thereof.
6. (Currently Amended) Process according to claim 1 one or more of Claims 1-5 for the preparation of compounds of the formula I in which

R^1 denotes NO_2 , CN , COOR^3 , $\text{CON}(R^3)_2$, COR^3 , CF_3 , F or Cl ,
 R^2 denotes H , Hal or A' ,
 R^3 denotes H , A' or $-\text{[C}(R^5)_2\text{]}_n\text{-Ar}$,
 Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
 Hal denotes F , Cl , Br or I ,
 n denotes 0, 1 or 2,
and salts thereof.

7. (Currently Amended) Process according to claim 1 one or more of Claims 1-6 for the preparation of compounds of the formula I, in which the amine of the formula II has a pK_a value ≤ 3 .
8. (Currently Amended) Process according to claim 1 one or more of Claims 1-7, in which process steps a) and b) are carried out as a one-pot reaction.
9. (Currently Amended) Process according to claim 1 one or more of Claims 1-8, in which process step a) is carried out at a temperature between 0 and 150°C.
10. (Original) Process according to Claim 9, in which process step a) is carried out at a temperature between 70 and 90°C.
11. (Currently Amended) Process according to claim 1 one or more of Claims 1-10, in which the cyclisation is carried out in an inert solvent or solvent mixture, in the presence of an alkali or alkaline earth metal hydroxide, carbonate or bicarbonate.
12. (Currently Amended) Process according to claim 1 one or more of Claims 1-11, in which the cyclisation is carried out in the presence of caesium carbonate or potassium carbonate.

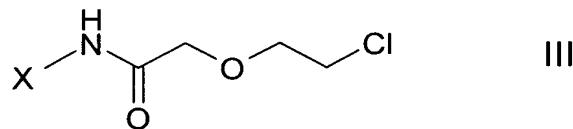
13. (Currently Amended) Process according to claim 1 one or more of Claims 1–12, in which the process is carried out as a one-pot reaction in acetonitrile.

14. (Currently Amended) Process according to claim 1 one or more of Claims 1–13 for the preparation of compounds selected from the group

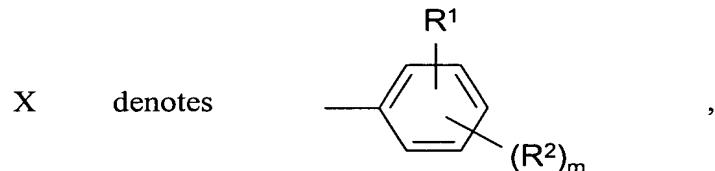
4-(4-nitrophenyl)-3-oxomorpholine,
4-(3-nitrophenyl)-3-oxomorpholine,
4-(2-nitrophenyl)-3-oxomorpholine,
2-methyl-4-(4-nitrophenyl)-3-oxomorpholine,
4-(4-methoxycarbonylphenyl)-3-oxomorpholine,
4-(4-benzoylphenyl)-3-oxomorpholine,

and salts thereof.

15. (Original) Intermediate compounds of the formula III



in which



R¹ denotes NO₂ or CN,

R² denotes H, Hal, A, OR³, N(R³)₂, NO₂, CN, COOR³, CON(R³)₂, NR³COA, NR³CON(R³)₂, NR³COOR³, NR³SO₂A, -[C(R⁵)₂]_n-Ar, -[C(R⁵)₂]_n-Het, -[C(R⁵)₂]_n-cycloalkyl, COR³, SO₂N(R³)₂ or SO₂R⁴,

R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁴ denotes A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁵ denotes H or A',

Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂ or S(O)_nA,
 Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂, S(O)_nA and/or carbonyl oxygen (=O),
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
 A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,
 Hal denotes F, Cl, Br or I,
 n denotes 0, 1 or 2,
 m denotes 0, 1, 2, 3 or 4,
 and salts thereof.

16. (Original) Intermediate compounds according to Claim 15 in which
 R¹ denotes NO₂ or CN,
 R² denotes H, Hal or A,
 and salts thereof.
17. (Original) Intermediate compounds according to Claim 15, in which
 R¹ denotes NO₂ or CN,
 R² denotes H, Hal or A,
 R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,
 and salts thereof.
18. (Currently Amended) Intermediate compounds according to Claim 15, ~~16 or 17~~ in which

Ar denotes phenyl,

and salts thereof.

19. (Currently Amended) Intermediate compounds according to claim 15 one or more of Claims 15-18 in which

R⁴ denotes A,

and salts thereof.

20. (Currently Amended) Intermediate compounds according to claim 15 one or more of Claims 15-19 in which

R¹ denotes NO₂ or CN,

R² denotes H, Hal or A',

R³ denotes H, A' or -[C(R⁵)₂]_n-Ar,

Ar denotes phenyl,

R⁵ denotes H or A',

A' denotes unbranched or branched alkyl having 1-6 C atoms,

Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1 or 2,

and salts thereof.

21. (Original) Intermediate compounds according to Claim 20 in which

R¹ denotes NO₂,

R² denotes H, Hal or A',

R³ denotes H, A' or -[C(R⁵)₂]_n-Ar,

Ar denotes phenyl,

R⁵ denotes H or A',

A' denotes unbranched or branched alkyl having 1-6 C atoms,

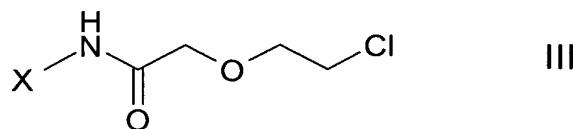
Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1 or 2,

and salts thereof.

22. (Original) Process for the preparation of intermediate compounds of the formula III



in which

X	denotes		,
R ¹	denotes	NO ₂ , CN, COOR ³ , CON(R ³) ₂ , COR ³ , SO ₂ R ⁴ , SO ₂ N(R ³) ₂ , CF ₃ , F or Cl,	
R ²	denotes	H, Hal, A, OR ³ , N(R ³) ₂ , NO ₂ , CN, COOR ³ , CON(R ³) ₂ , NR ³ COA, NR ³ CON(R ³) ₂ , NR ³ COOR ³ , NR ³ SO ₂ A, -[C(R ⁵) ₂] _n -Ar, -[C(R ⁵) ₂] _n -Het, -[C(R ⁵) ₂] _n -cycloalkyl, COR ³ , SO ₂ N(R ³) ₂ or SO ₂ R ⁴ ,	
R ³	denotes	H, A, -[C(R ⁵) ₂] _n -Ar or -[C(R ⁵) ₂] _n -Het,	
R ⁴	denotes	A, -[C(R ⁵) ₂] _n -Ar or -[C(R ⁵) ₂] _n -Het,	
R ⁵	denotes	H or A',	
Ar	denotes	phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR ⁵ , N(R ⁵) ₂ , NO ₂ , CN, COOR ⁵ , CON(R ⁵) ₂ , NR ⁵ COA, NR ⁵ SO ₂ A, COR ⁵ , SO ₂ N(R ⁵) ₂ or S(O) _n A,	
Het	denotes	a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR ⁵ , N(R ⁵) ₂ , NO ₂ , CN, COOR ⁵ , CON(R ⁵) ₂ , NR ⁵ COA, NR ⁵ SO ₂ A, COR ⁵ , SO ₂ N(R ⁵) ₂ , S(O) _n A and/or carbonyl oxygen (=O),	
A'	denotes	unbranched or branched alkyl having 1-6 C atoms,	
A	denotes	unbranched, branched or cyclic alkyl having 1-12 C	

atoms, in which one or two CH₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,

Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1, 2, 3 or 4,

and salts thereof, characterised in that

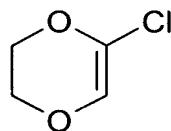
a) a compound of the formula II



in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



and

the compound of the formula III is optionally converted into its salt.

23. (Original) Process according to Claim 22 for the preparation of intermediate compounds of the formula III

in which

R¹ denotes NO₂ or CN,

R² denotes H, Hal, A, OR³, N(R³)₂, NO₂, CN, COOR³, CON(R³)₂, NR³COA, NR³CON(R³)₂, NR³COOR³, NR³SO₂A, -[C(R⁵)₂]_n-Ar, -[C(R⁵)₂]_n-Het, -[C(R⁵)₂]_n-cycloalkyl, COR³, SO₂N(R³)₂ or SO₂R⁴,

R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁴ denotes A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁵ denotes H or A',

Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂ or S(O)_nA,
Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂, S(O)_nA and/or carbonyl oxygen (=O),
A' denotes unbranched or branched alkyl having 1-6 C atoms,
A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1, 2, 3 or 4.

24. (Original) Process according to Claim 23 for the preparation of intermediate compounds of the formula III
in which

R¹ denotes NO₂ or CN,
R² denotes H, Hal or A.

25. (Original) Process according to Claim 23 for the preparation of intermediate compounds of the formula III
in which

R¹ denotes NO₂ or CN,
R² denotes H, Hal or A,
R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het.

26. (Original) Process according to Claim 23 for the preparation of intermediate compounds of the formula III
in which
Ar denotes phenyl.

27. (Original) Process according to Claim 23 for the preparation of intermediate compounds of the formula III
in which
 R^4 denotes A.

28. (Original) Process according to Claim 23 for the preparation of intermediate compounds of the formula III
in which
 R^1 denotes NO_2 or CN,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-\text{[C}(R^5)_2\text{]}_n\text{-Ar}$,
Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1 or 2.